

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

A RAIN-GAUGE SUPPORT

By M. R. Osburn, Division of Fruit Insect Investigations,
Bureau of Entomology and Plant Quarantine,
U. S. Department of Agriculture

In caring for five sets of weather instruments in and around Orlando, Fla., and in obtaining rainfall data, some difficulty was experienced from overturned rain gauges, even when they were supported with the usual light wooden framework. One of the reasons for this difficulty was that the diameter of the rain gauge (8 inches) is small in comparison with the height (26 inches). Without support, or with only the light-weight support, the apparatus is top-heavy. To overcome this trouble, a heavier rain-gauge support, or holder, has been designed and made for each of the weather stations. This support is shown in figures 1, 2, and 3.

The support consists of eight pieces of wood, four of which are 24 inches long by 6 inches wide by 1-5/8 inches thick, and four of which are 10½ inches long by 1-5/8 inches wide by 1-5/8 inches thick.

In constructing the support the controlling factor was the outside diameter of the rain gauge. Each end of the four largest pieces of wood was beveled on one edge, starting back 3½ inches from the end, at angles of 45°. Then these pieces were mortised so that a square was formed, the inside dimensions of each side being 8¼ inches. Before the four remaining pieces of wood of equal dimensions were placed as uprights, one in each inside corner of the square, one corner of each piece was beveled its entire length to a flat surface of 1 inch. These uprights were placed so the beveled surfaces were nearly flush with the rain gauge when it was placed in the support.

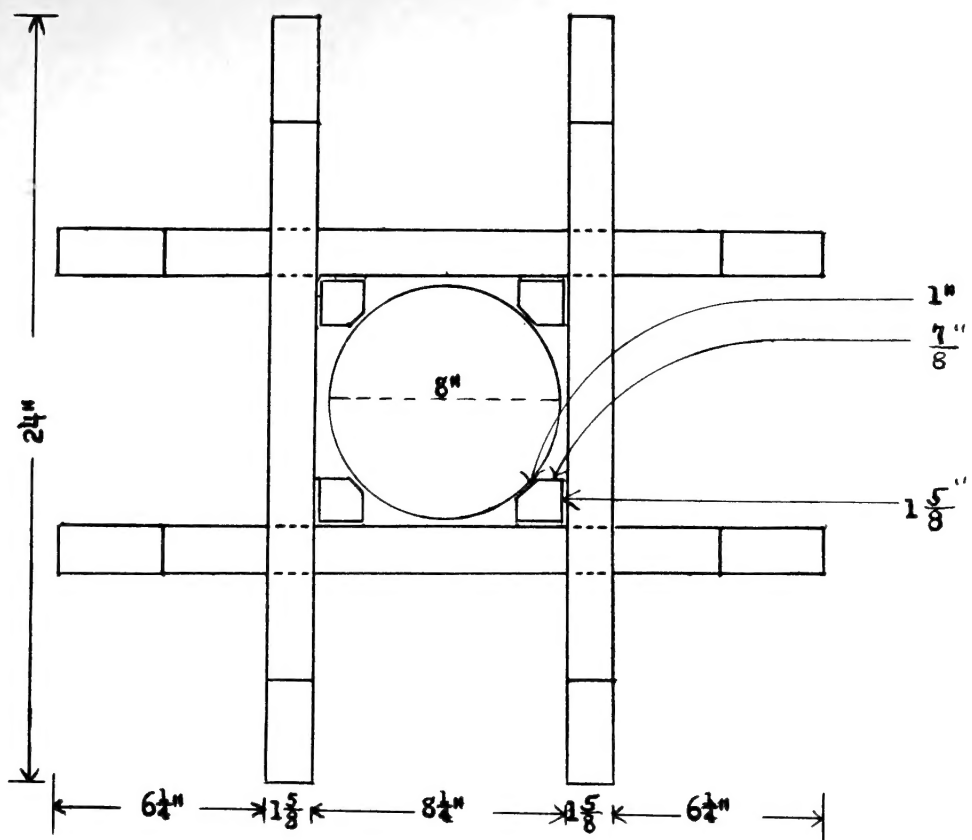
These supports were made of cypress by a carpenter, at a total cost of 90 cents each.

Explanation of Illustrations

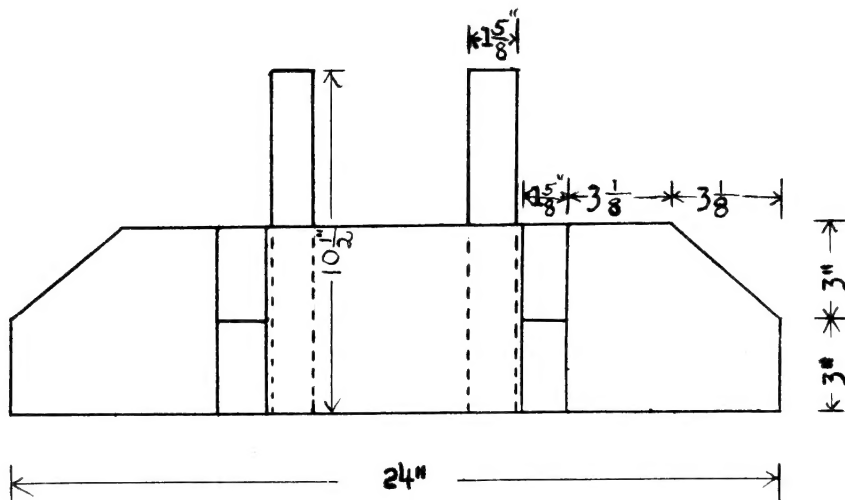
Figure 1.—Drawings of rain-gauge support. Top view and side view.

Figure 2.—Support for rain gauge.

Figure 3.—Rain gauge in support.



Top View



Side View

MRO
1935

Figure 1

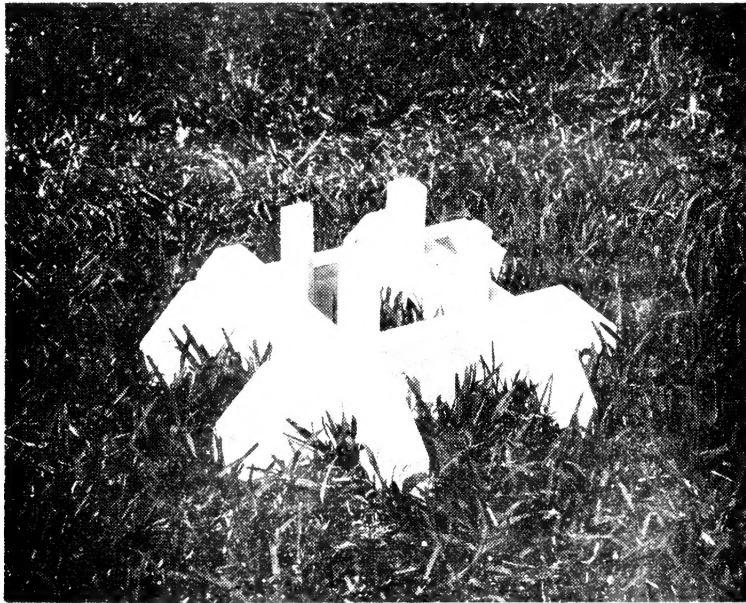


Figure 2

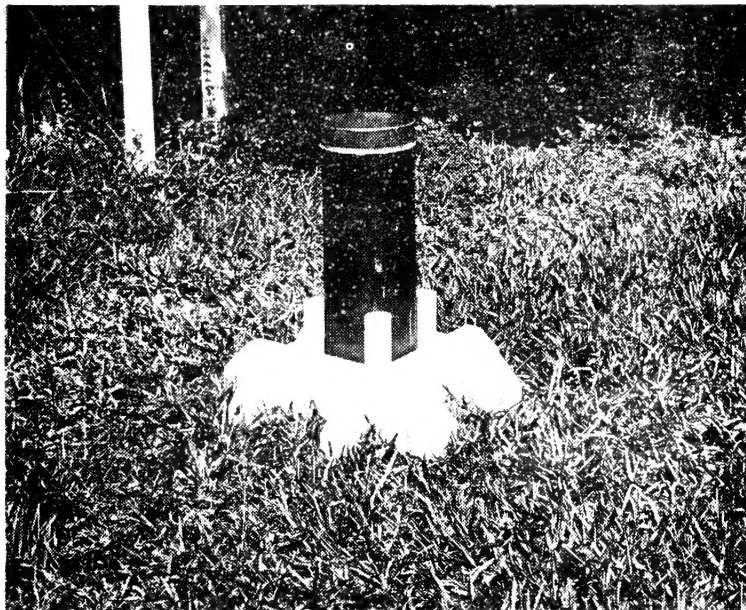


Figure 3

